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*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

December 12, 2003

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Mail Stop AF

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 09/266,935; Filed: March 12, 1999

For: Compositions and Methods for Enhanced Synthesis of

Nucleic Acid Molecules

Inventors:

LI et al.

Our Ref:

0942.4560001/RWE/BJD/JKM

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Fee Transmittal (Form PTO/SB/17);
- 2. Credit Card Payment Form PTO-2038;
- 3. Fourth Supplemental Information Disclosure Statement;
- 4. List of cited references on Form PTO-1449 (1 sheet);
- 5. A copy of each reference cited on Form PTO-1449 (2 documents: AL2-AM2); and
- 6. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents December 12, 2003 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono Attorney for Applicants Registration No. 42,473

BJD/JKM/acr Enclosures

SKGF 208759v1

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

LI et al.

Appl. No. 09/266,935

Filed: March 12, 1999

For:

Compositions and Methods for

Enhanced Synthesis of Nucleic

Acid Molecules

Confirmation No. 6420

Art Unit:

1637

Examiner:

Riley, J.

Atty. Docket:

0942.4560001/RWE/BJD/JKM

Fourth Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Fourth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Third Supplemental Information Disclosure Statement filed on June 26, 2000 in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates

should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- □ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- □ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application,

OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

- □ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date

 AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this
 Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information
 Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information

 Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information

 Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
 - C. Attached is our PTO-2038 Credit Card Payment Form

 [OR] Check No. ______ in the amount of \$
 _____ in payment of the fee under 37 C.F.R.

 § 1.17(p).

- 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$ 180.00 in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this
 Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information
 Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information

 Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information

 Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- □ 6. A concise explanation of the relevance of the non-English language document(s) appears below:

□ 7.	Copies of the documents were cited by or submitted to the Office in an
	IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No
	, filed, which is relied upon for an earlier
	filing date under 35 U.S.C. § 120. Thus, copies of these
	documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono Attorney for Applicants Registration No. 42,473

Date: Dec. 12, 2003

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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Page 1 of 1 ATTY. DOCKET NO. APPLICATION NO. 0942.4560001/RWE/BJD/JKM 09/266,935 FORM PTO-1449 APPLICANT LI et al. FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT FILING DATE **GROUP** March 12, 1999 1637 **U.S. PATENT DOCUMENTS EXAMINER** DATE NAME CLASS SUB-CLASS FILING DATE INITIAL DOCUMENT NUMBER AΑ ΑB AC ΑD ΑE ΑF AG ΑH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS **EXAMINER** DATE COUNTRY CLASS SUB-CLASS **TRANSLATION** INITIAL **DOCUMENT** NUMBER EP 0 726 310 B1 07/09/2003 Europe Yes AL2 No EP 0 821 058 A2 01/28/1998 Yes Europe AM2 No Yes ΑN No Yes ΑO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR

EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

AS

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

Name (Print/Type)

Signature

Brian J. Del Buono

Complete if Known				
Application Number	09/266,935			
Filing Date	03/12/99			
First Named Inventor	Li et al.			
Examiner Name	Riley, J.			
Art Unit	1637			
Attorney Docket No.	0042 4560001/P.WE/BID/IKM			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
Check X Credit card Money X Other** None	3. ADDITIONAL FEES						
*Charge any deficiencies or credit any overpayments in	Large Entity Small Entity	ĺ					
Deposit Account: the fees to Deposit Acct. No. 19-0036. Deposit	Fee Fee Fee Fee Fee Description						
Account 19-0036	Code (\$) Code (\$) 1051 130 2051 65 Surcharge - late filing fee or oath	ee Paid					
Number Deposit	1052 50 2052 25 Surcharge - late mining fee or Gath						
Account Sterne Kessler, Goldstein & Fox P.L.L.C.	cover sheet						
Name The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification						
Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination						
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action						
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action						
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month						
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month						
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month						
Fee Fee Fee Fee Description Fee Paid	1254 1,480 2254 740 Extension for reply within fourth month						
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee	1255 2,010 2255 1,005 Extension for reply within fifth month						
1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal						
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal						
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing						
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding						
SUBTOTAL (1) (\$) 0.00	1452 110 2452 55 Petition to revive - unavoidable						
	1453 1,330 2453 665 Petition to revive - unintentional						
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from	E 1501 1,330 2501 665 Utility issue fee (or reissue)						
Extra Claims below Fee Paid	1502 480 2502 240 Design issue fee						
Total Claims33 **= X=0.00	1503 640 2503 320 Plant issue fee						
Claims - 3 - 3	1460 130 1460 130 Petitions to the Commissioner						
Multiple Dependent = 0.00	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)						
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt	180.00					
Code (\$) Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)						
1202 18 2202 9 Claims in excess of 20	1809 770 2809 385 Filing a submission after final rejection						
1201 86 2201 43 Independent claims in excess of 3	(37 CFR 1.129(a))						
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims	1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))						
1204 86 2204 43 ** Reissue independent claims over original patent	1801 770 2801 385 Request for Continued Examination (RCE)						
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application						
SUBTOTAL (2) (\$) 0.00 Other fee (specify)							
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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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